	Application No.	Applicant(s)
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Notice of Allowability	0/829,313 xaminer	HUAI ET AL. Art Unit
	Douglas M. Menz	2891
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (O herewith (or previously mailed), a Notice of Allowance (PTOL-85) or NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGI of the Office or upon petition by the applicant. See 37 CFR 1.313 at	s on the cover sheet wit. R REMAINS) CLOSED in other appropriate commu	h the correspondence address this application. If not included
1. This communication is responsive to 11/14/06.		
2. ☑ The allowed claim(s) is/are <u>1-21</u> .		
 Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: Certified copies of the priority documents have been compacted as a claim for foreign priority under the copies of the priority documents have been compacted as a claim for foreign priority under the copies of the priority documents have been compacted as a claim for foreign priority under the copies of the priority documents have been compacted as a claim for foreign priority under the copies of the priority documents have been copies. 	een received.	
3. ☐ Copies of the certified copies of the priority documents have be		· ·
International Bureau (PCT Rule 17.2(a)).		in this national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted.	NT of this application. ed. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which gives	reason(s) why the oath or	declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be	e submitted.	
(a) \square including changes required by the Notice of Draftsperson	's Patent Drawing Review	(PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the	(c)) should be written on the header according to 37 CFF	e drawings in the front (not the back) of R 1.121(d).
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO 	of BIOLOGICAL MATE R THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.
Attachment(s) I. ☐ Notice of References Cited (PTO-892)		15
2. ☐ Notice of Praftperson's Patent Drawing Review (PTO-948)		ormal Patent Application mmary (PTO-413),
B. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./N	Mail Date Amendment/Comment
in the internation biodiosare diatements (1 10/30/00),		
Paper No./Mail Date	8. 🛛 Examiner's 9	Statement of Reasons for Allowance
Paper No./Mail Date		Statement of Reasons for Allowance <u>emental Search History</u> .

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Cancel non-elected claims 22-42.

This application is in condition for allowance except for the presence of claims 22-42 directed to an invention non-elected without traverse. Accordingly, claims 22-42 have been cancelled.

Allowable Subject Matter

Claims 1-21 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

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Regarding claims 1-20, there is no teaching or suggestion in the art of record disclosing a magnetic element comprising a spin depolarization layer being configured to depolarize at least a portion of a plurality of electrons passing through the spin depolarization layer in combination with all other structural limitations of claim 1. Therefore, independent claim 1 is deemed allowable along with its dependent claims 2-20.

Regarding claim 21, there is no teaching or suggestion in the art of record disclosing a magnetic element comprising all of the limitations of claim 21 in combination, wherein the first ferromagnetic layer is doped with at least a first material such that a first spin diffusion length of the first ferromagnetic layer is reduced to be less than the thickness of the first ferromagnetic layer. Therefore, independent claim 21 is deemed allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas M. Menz whose telephone number is 571-272-1877. The examiner can normally be reached on M-F 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DM

Doug Menz 2/3/07